| <u>Ir</u> | idex ( | of CI | aims |  |
|-----------|--------|-------|------|--|
|           |        |       |      |  |

| Applicat | ion/Control | No. |
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|          |             |     |

Applicant(s)/Patent under Reexamination

10/718,297

DEBOER ET AL. **Art Unit** 

Examiner

Anish Sikri

2143

Rejected Allowed

(Through numeral) Cancelled Restricted

Non-Elected Ν Interference

**Appeal** Α 0 Objected

|          |          |          |  |  |                |          |              |  |          |          |   |       |          |  |              |              | _ |
|----------|----------|----------|--|--|----------------|----------|--------------|--|----------|----------|---|-------|----------|--|--------------|--------------|---|
| Cla      | aim      |          |  |  |                | Date     | е            |  |          |          |   | Cla   | im       |  |              | _            | _ |
| Final    | Original | 6/15/07  |  |  |                |          |              |  |          |          |   | Final | Original |  |              |              |   |
|          | 1        | 7        |  | _  |                |          |              | $\vdash$   | Г        |          |   |       | 51       |  |              |              | t |
|          | 2        | 7        |  |  |                |          |              |  |          |          |   |       | 52       |  |              |              | Ι |
|          | 3        | 1        |  |  |                |          |              |  |          |          |   |       | 53       |  |              |              | I |
|          | 4        | 1        | L  |  |                |          |              | L  |          | _        |   |       | 54       |  |              | _            | ļ |
|          | 5        | 1        |  |  |                | <u> </u> |              |  | _        |          |   |       | 55       |  | _            | L_           | ļ |
|          | 6        | V        |  |  |                | _        | _            |  | L        |          |   |       | 56       |  |              | _            | ļ |
| <u></u>  | 7        | V        | _  | _  |                | _        |              |  |          | _        |   |       | 57       |  | <u> </u>     | ļ            | ļ |
|          | 8        | 1        | _  |  | _              | <u> </u> |              | _  | _        | _        |   |       | 58       |  |              | <u> </u>     | ŀ |
| -        | 9        | 7        | ┝  | _  | _              | ├        | -            | _  |          | -        |   |       | 59<br>60 | _  | $\vdash$     | ⊢            | ╀ |
|          | 10<br>11 | 1        |  |  | _              | -        | -            | $\vdash$   | -        | $\vdash$ |   |       | 61       |  | $\vdash$     | -            | ł |
| -        | 12       | 1        |  | -  | _              | -        | -            | $\vdash$   | -        | -        |   |       | 62       |  | $\vdash$     | ╁            | ł |
| -        | 13       | 1        |  |  | _              | ┢        | ├            | $\vdash$   | -        | <u> </u> |   |       | 63       | _  | $\vdash$     | -            | ł |
| $\vdash$ | 14       | 1        |  | _  | _              | $\vdash$ | $\vdash$     | ┝  | -        | -        |   |       | 64       |  |              | $\vdash$     | t |
|          | 15       | V        | -  | _  | ┢              |          | -            | $\vdash$   | -        | $\vdash$ |   |       | 65       |  | $\vdash$     | 一            | t |
| -        | 16       | Ī        | _  |  |                | $\vdash$ | ╁            | _  | -        | $\vdash$ |   |       | 66       | $\vdash$   |              | Г            | t |
|          | 17       | 1        |  |  | $\vdash$       |          | Г            |  | _        | _        |   |       | 67       |  |              |              | t |
|          | 18       | 1        |  |  |                |          | Г            | $\vdash$   |          | $\vdash$ |   |       | 68       |  |              | Г            | T |
|          | 19       | 1        | _  |  |                |          |              |  |          | T        |   |       | 69       |  |              | Г            | T |
|          | 20       | 1        |  |  |                |          |              |  |          |          |   |       | 70       |  |              |              | Ι |
|          | 21       | 1        |  |  |                |          |              |  |          |          | ] |       | 71       |  |              |              | Ι |
|          | 22       | 1        |  |  |                |          |              |  |          |          |   |       | 72       | L  |              | L            | l |
|          | 23       | 1        |  |  |                |          |              |  |          |          |   |       | 73       |  | L            | <u> </u>     | ļ |
|          | 24       | V        | _  | L  | _              |          | _            |  |          | _        |   |       | 74       |  | _            | <u> </u>     | ļ |
|          | 25       | V        |  | L  | L              |          | <u> </u>     | _  |          | <u> </u> |   | •     | 75       | $\vdash$   | <u> </u>     | ├_           | ļ |
|          | 26       | 1        | <u> </u>   | <u> </u>   | <u> </u>       |          | <u> </u>     | _  | <u> </u> | _        |   |       | 76       | _  | <u> </u>     | ├-           | ł |
|          | 27       | 1        | <u> </u>   | _  | <del> </del>   |          | <u> </u>     | <u> </u>   | ├        | <u> </u> |   |       | 77       | $\vdash$   |              | ├            | ł |
| <u></u>  | 28       | 1        | <del> </del>                                     |  | ├              |          |              | <u> </u>   | -        | _        |   |       | 78<br>79 |  | ⊢            | -            | ł |
| <u> </u> | 29<br>30 | 1        | $\vdash$   | $\vdash$   |                |          | ┢            | -  | -        | ├─       |   |       | 80       |  | -            |              | ł |
|          | 31       | 1        | -  | -  | -              | -        | $\vdash$     | $\vdash$   | ├        | -        |   |       | 81       | -  | $\vdash$     | ┢            | t |
| H-       | 32       | 1        | ┢  |  | -              | ┢        | ╁            | $\vdash$   |          | -        |   |       | 82       |  | $\vdash$     | ╁            | t |
| <b>—</b> | 33       | 1        | -  | -  | -              | $\vdash$ | $\vdash$     | $\vdash$   |          |          |   |       | 83       | <u> </u>   | -            | ┢            | t |
| -        | 34       | 1        | <del>                                     </del> | -  | $\vdash$       | $\vdash$ | $\vdash$     | $\vdash$   | -        |          |   |       | 84       | _  | -            | ┢            | t |
|          | 35       | Ė        | _  | $\vdash$   | -              |          | T            |  |          |          | 1 |       | 85       |  | _            | Г            | t |
|          | 36       |          |  |  |                |          |              | <del>                                     </del> |          |          |   |       | 86       |  | Г            | ┢            | t |
|          | 37       | $\vdash$ |  |  |                | Г        | Γ            |  |          |          |   |       | 87       |  |              | Г            | Ť |
|          | 38       |          |  |  |                |          |              |  |          |          |   |       | 88       |  |              |              | I |
|          | 39       |          |  |  |                |          |              |  |          |          |   |       | 89       |  |              |              | I |
|          | 40       |          |  |  |                |          |              | 匚  | 匚        |          |   |       | 90       | <u> </u>   | <u> </u>     |              | 1 |
|          | 41       | _        | lacksquare                                       | _  | _              | _        | $oxed{oxed}$ |  | <u> </u> | <u> </u> |   |       | 91       | <u> </u>   | <u> </u>     | <u> </u>     | 1 |
|          | 42       | _        | <u> </u>   | <u> </u>   | <u> </u>       |          | <u> </u>     | _  | _        | <u> </u> |   |       | 92       | <u> </u>   | <u> </u>     | <b>_</b>     | 1 |
|          | 43       |          | <u> </u>   | <u> </u> _                                       | <u> </u>       | <u> </u> | $\vdash$     | <u> </u>   | <u> </u> | <u> </u> |   |       | 93       | <u> </u>   | <u> </u>     | ₩            | 1 |
|          | 44       |          | <u> </u>   | L  | <u> </u>       | <u> </u> | <u> </u>     | <del> </del>                                     | ├_       | ├_       |   |       | 94       | ├-   |              | <del> </del> | 1 |
|          | 45       | <u> </u> | <del> </del>                                     | <u> </u>   | <del> </del> — | -        | -            | <u> </u>   | _        | $\vdash$ |   |       | 95       | <u> </u>   | -            | ├            | + |
| <u> </u> | 46       | ├        | <del> </del>                                     | <del>                                     </del> | -              | ⊢        | ⊢            | ├  | -        |          | ł |       | 96       | -  | <del> </del> | ├            | + |
|          | 47       | $\vdash$ | $\vdash$   | _  | <u> </u>       | Н-       | ├-           |  | -        | $\vdash$ | ł | •     | 97       | -  | -            | $\vdash$     | + |
| <u> </u> | 48       | $\vdash$ | $\vdash$   | ├—   | -              | $\vdash$ | +-           |  | -        | -        | ł |       | 98<br>99 | <del>                                     </del> | -            | <del> </del> | + |
| $\vdash$ | 49<br>50 | ⊢        | <del> </del>                                     | <del> </del>                                     | $\vdash$       | $\vdash$ | ⊢            | $\vdash$   | $\vdash$ | $\vdash$ | ł |       | 100      | $\vdash$   | -            | <del> </del> | t |
|          | 30       | <u> </u> | <u> </u>   | <u> </u>   | Ц_             | L_       | Ь_           | Ц_   |          | Ц_       | J |       | 100      | L  | <u> </u>     | Щ            | 1 |

| Cla         | Claim    |          |          | Date     |              |             |          |              |              |              |  |  |
|-------------|----------|----------|----------|----------|--------------|-------------|----------|--------------|--------------|--------------|--|--|
| Final       | Original |          |          |          |              |             |          |              |              |              |  |  |
|             | 51       | $\dashv$ |          | _        |              | _           |          | _            | _            |              |  |  |
|             | 52       |          |          |          | $\Box$       |             |          |              |              |              |  |  |
|             | 53       |          |          |          |              |             |          |              |              |              |  |  |
|             | 54       | _        |          |          |              |             |          | $\neg$       |              |              |  |  |
|             | 55       |          |          |          | $\dashv$     |             |          | _            | _            | _            |  |  |
|             | 56       | _        | -        |          | $\dashv$     |             | _        | _            |              | _            |  |  |
|             | 57       |          |          |          |              |             |          |              |              |              |  |  |
| -           | 58       |          |          |          | $\neg$       |             | $\neg$   |              |              |              |  |  |
| -           | 59       |          |          |          |              |             |          |              |              |              |  |  |
|             | 60       | _        |          |          |              | _           |          |              |              |              |  |  |
| _           | 61       | _        |          |          |              |             |          |              | $\neg$       |              |  |  |
|             | 62       |          |          |          |              |             |          |              |              |              |  |  |
| -           | 63       | _        |          |          |              |             |          |              |              |              |  |  |
|             | 64       |          |          |          |              |             |          |              |              |              |  |  |
|             | 65       |          |          |          |              |             |          |              |              |              |  |  |
|             | 66       |          | $\Box$   |          |              |             |          |              |              |              |  |  |
|             | 66<br>67 |          |          |          |              |             |          |              |              |              |  |  |
|             | 68       |          |          | _        |              |             |          |              |              |              |  |  |
|             | 69       |          |          | _        |              |             |          |              |              |              |  |  |
|             | 70       |          |          |          |              | _           |          |              |              |              |  |  |
|             | 71       |          |          |          |              |             |          |              |              |              |  |  |
|             | 72       |          |          |          |              |             |          |              |              |              |  |  |
|             | 72<br>73 |          |          |          |              |             |          |              |              |              |  |  |
|             | 74       |          |          |          |              |             |          |              |              |              |  |  |
|             | 75       |          |          |          |              |             |          |              |              |              |  |  |
|             | 76       |          |          |          |              |             |          |              |              |              |  |  |
|             | 77<br>78 |          |          |          |              |             |          |              |              |              |  |  |
|             | 78       |          |          |          |              |             |          |              |              |              |  |  |
|             | 79       |          |          |          |              |             |          |              |              |              |  |  |
|             | 80       |          |          |          |              |             |          |              |              |              |  |  |
|             | 81       |          |          |          |              |             |          |              |              |              |  |  |
|             | 82       |          |          |          |              |             |          |              |              |              |  |  |
|             | 83       |          |          |          |              |             |          |              |              |              |  |  |
|             | 84       |          |          |          |              |             |          |              |              |              |  |  |
|             | 85       |          |          |          |              |             |          |              |              | _            |  |  |
|             | 86       |          |          |          |              |             |          |              |              |              |  |  |
| <u> </u>    | 87       |          |          | _        |              |             |          |              |              | _            |  |  |
| <u> </u>    | 88       |          |          | _        |              | _           |          | _            |              |              |  |  |
|             | 89       |          |          |          | _            | <u> </u>    |          |              |              | <u> </u>     |  |  |
| <u> </u>    | 90       | _        | Ш        |          | Ш            |             | _        |              | _            | _            |  |  |
| -           | 91       | _        |          | _        |              | <u> </u>    |          | _            | _            | _            |  |  |
|             | 92<br>93 | $\vdash$ | H        | <u> </u> |              |             |          | -            | -            | <u> </u>     |  |  |
|             | 93       | -        | <u> </u> | <u> </u> | $\vdash$     | -           |          | -            | <u> </u>     | -            |  |  |
| -           | 95       | -        |          | <u> </u> | <del> </del> | -           | -        | -            | <del> </del> | ⊢            |  |  |
| -           | 95       | -        |          | <u> </u> | -            | $\vdash$    | $\vdash$ | -            |              | ⊢            |  |  |
|             | 95       |          |          |          | $\vdash$     | -           | -        | <del> </del> | ├            | ├            |  |  |
| <del></del> | 98       | -        | $\vdash$ | $\vdash$ |              | <u> </u>    | $\vdash$ | <u> </u>     | $\vdash$     | ├            |  |  |
| <del></del> | 99       | -        | $\vdash$ | $\vdash$ | -            | <del></del> | $\vdash$ | $\vdash$     | $\vdash$     | ┢            |  |  |
|             | 100      | _        | $\vdash$ | -        | $\vdash$     | ├           | $\vdash$ | -            | $\vdash$     | <del> </del> |  |  |

| Cla          | aim                             | Date         |          |              |              |              |  |              |              |          |
|--------------|---------------------------------|--------------|----------|--------------|--------------|--------------|--|--------------|--------------|----------|
|              | 1                               |              |          |              |              |              |  |              |              |          |
| ā            | Original                        |              |          |              |              |              |  |              |              |          |
| Final        | īġ                              |              |          |              |              |              |  |              |              |          |
|              |                                 |              |          |              |              |              | l  |              |              |          |
|              | 101                             | _            | _        | $\vdash$     | -            |              |  |              |              | $\neg$   |
|              | 102                             | _            | $\vdash$ | _            |              | _            | $\dashv$   | _            |              | _        |
|              | 101<br>102<br>103               | _            | _        | -            | _            | _            | -  |              | -            | $\vdash$ |
|              | 104                             | _            |          | -            | -            |              | -  |              |              |          |
| -            | 104<br>105                      | -            | -        |              |              |              | _  |              | $\vdash$     | $\vdash$ |
|              | 106                             |              |          |              |              | _            | $\vdash$   | _            | _            | $\vdash$ |
| -            | 107                             | _            |          |              | _            |              |  |              |              | Н        |
|              | 108                             |              | -        |              |              |              |  |              |              | $\neg$   |
| -            | 109                             | -            | H        |              |              | _            |  |              |              | $\dashv$ |
| <del> </del> | 110                             |              | $\vdash$ | -            | -            | _            | -  |              | $\vdash$     | $\vdash$ |
|              | 111                             | _            |          | -            |              |              |  |              |              |          |
| _            | 112                             |              | $\vdash$ | ╁            | Н            |              |  |              | $\vdash$     | $\vdash$ |
|              | 113                             | _            | T        | T            |              | Т            |  |              |              | $\vdash$ |
|              | 114                             |              | $\vdash$ | Г            | П            |              | $\Box$   |              |              | П        |
|              | 115                             |              |          |              | П            |              |  |              |              | П        |
|              | 115<br>116                      | П            |          |              |              |              |  |              |              | П        |
|              | 117                             | ·            |          |              |              |              |  |              |              |          |
|              | 118                             |              | Г        |              | Г            |              |  |              |              | П        |
|              | 119                             |              |          |              |              |              |  |              |              |          |
|              | 120                             |              |          |              |              |              |  |              |              |          |
|              | 120<br>121<br>122               |              |          |              |              |              |  |              |              |          |
|              | 122                             |              |          |              |              |              |  |              |              |          |
|              | 123                             | L            |          |              | <u> </u>     | _            |  |              |              | ·        |
| <u> </u>     | 123<br>124<br>125               |              | <u> </u> | _            | _            |              |  | L            | L.           | Ш        |
|              | 125                             |              | _        | _            |              |              | _  |              | _            | Ш        |
|              | 126<br>127<br>128<br>129<br>130 | _            | <u> </u> | <u> </u>     | <u> </u>     | <u> </u>     | L  | _            | -            | Н        |
|              | 127                             | <u> </u>     | <u> </u> |              | <u> </u>     | <u> </u>     | $\vdash$   |              |              | Н        |
| <u> </u>     | 128                             | <del> </del> | -        | _            | -            | ├-           | -  | -            |              | Н        |
|              | 129                             | H            | ⊢        | ├—           | -            | ļ            | H  | ⊢            |              | H        |
|              | 130                             | -            | -        | <del> </del> | -            | ⊢            | H  | -            | -            |          |
| <u> </u>     | 131<br>132                      | H            | -        | H            | <u> </u>     |              |  | _            |              | Н        |
| <del> </del> | 133                             | ├            | ├        |              | ├            | <del> </del> |  | $\vdash$     | <del> </del> | $\vdash$ |
|              | 133                             | $\vdash$     | $\vdash$ | ├            | <del> </del> | -            | <u> </u>   |              |              | $\vdash$ |
|              | 135                             | $\vdash$     | $\vdash$ |              |              | $\vdash$     | $\vdash$   | ├            |              | H        |
|              | 136                             | $\vdash$     | $\vdash$ | $\vdash$     | -            | <u> </u>     | -  | <del> </del> | <del> </del> | $\vdash$ |
| <u> </u>     | 137                             | $\vdash$     |          | -            | $\vdash$     | -            | $\vdash$   | $\vdash$     | -            | $\vdash$ |
| <del></del>  | 137<br>138                      | $\vdash$     | $\vdash$ | $\vdash$     | H            |              | <del>                                     </del> | $\vdash$     | $\vdash$     | H        |
|              | 139                             | $\vdash$     | $\vdash$ | $\vdash$     | ┢            | <b>-</b>     | Н  | $\vdash$     | -            | Н        |
|              | 140                             | $\vdash$     | 1        | $\vdash$     | $\vdash$     | Н            |  | Н            |              | Н        |
|              | 141                             | $\vdash$     |          | $\vdash$     | $\vdash$     | $\vdash$     | <del>                                     </del> | H            | Г            | $\Box$   |
|              | 142                             | T            |          |              | Г            | Г            | 1  | l            |              | П        |
|              | 143                             | Г            | 1        | 1            | Г            |              | 1  |              |              |          |
|              | 144                             |              |          |              |              |              |  |              |              |          |
|              | 145                             |              |          |              |              |              |  |              |              |          |
|              | 146                             |              |          |              |              |              |  |              |              |          |
|              | 147                             |              |          | $\Box$       |              |              | L  | L            |              | Ш        |
|              | 148                             |              |          | $\vdash$     | <u> </u>     | <u> </u>     |  | <u> </u>     | _            |          |
| <u> </u>     | 149                             | <u> </u>     | -        | $\vdash$     | <u> </u>     | <u> </u>     | <u> </u>   | _            | _            | H        |
|              | 150                             | <u> </u>     | <u></u>  | <u>L</u>     | <u> </u>     | Ц.           | <u></u>  | L            | <u>L</u>     | L        |